







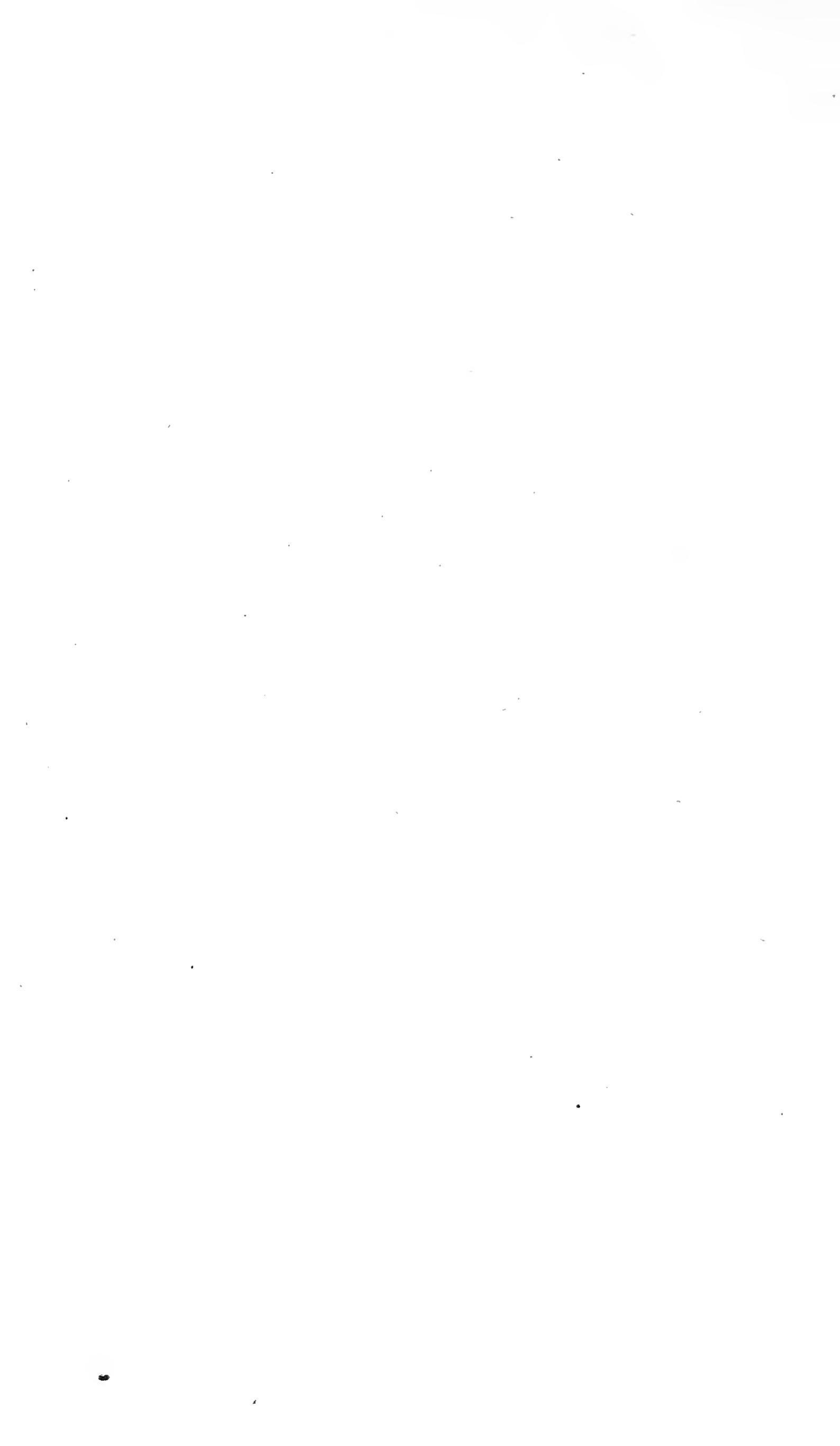
YORKSHIRE PHILOSOPHICAL SOCIETY.

A N N U A L R E P O R T

FOR

MDCCLXI.





A N N U A L R E P O R T
OF THE COUNCIL
OF THE
YORKSHIRE
PHILOSOPHICAL SOCIETY

FOR

MDCCCLI.

PRESENTED TO THE ANNUAL MEETING,

FEBRUARY, 1852.



YORK :

H. SOTHERAN, BOOKSELLER, CONEYSTREET.

—
1852.

TRUSTEES
OF
THE YORKSHIRE MUSEUM,
APPOINTED BY ROYAL GRANT.

CHARLES WILLIAM, EARL FITZWILLIAM.
THOMAS PHILIP, EARL DE GREY.
HON. AND VERY REV. HENRY HOWARD, D. D.
SIR WILLIAM LAWSON, BART., F. S. A.
FRANCIS CHOLMELEY, ESQ., F. S. A.
ROBERT DENISON, ESQ.
REV. WILLIAM VERNON HARCOURT, F. R. S.
RICHARD JOHN THOMPSON, ESQ.

PATRONESSES
OF THE
Yorkshire Philosophical Society.

HER MAJESTY THE QUEEN.

H. R. H. THE DUCHESS OF KENT.

PATRONS.

THE ARCHBISHOP OF YORK.

DUKE OF NORTHUMBERLAND, F. R. S.

EARL OF CARLISLE, F. R. S.

EARL FITZWILLIAM, F. R. S.

EARL OF TYRCONNEL, F. R. S.

LORD FEVERSHAM.

LORD WENLOCK.

OFFICERS OF THE SOCIETY, 1852.

PRESIDENT:

EARL FITZWILLIAM.

VICE PRESIDENTS:

LORD LONDESBOROUGH, F. R. S.

HON. PAYAN DAWNAY.

REV. C. WELLBELOVED.

REV. WM. HEY.

FRANCIS CHOLMELEY.

WM. RUDSTON READ, F. L. S.

THOS. MEYNELL, JUN., F. L. S.

HENRY ROBINSON.

TREASURER:

WILLIAM GRAY, F. G. S.

COUNCIL:

Elected 1850 ROBT. H. ANDERSON.

REV. J. KENRICK.

W. L. NEWMAN, F. R. Ast. S.

J. P. PRITCHETT.

Elected 1851 JOHN CLUDERAY.

JOHN FORD.

JOSHUA OLDFIELD.

DR. SHANN.

Elected 1852 REV. W. V. HAROURT, F.R.S.

REV. R. B. COOKE, F. G. S.

ROBT. DAVIES.

THOMAS ALLIS.

SECRETARIES:

THOS. H. TRAVIS.

JOHN PHILLIPS, F. R. S.

CURATORS :

MINERALOGY	PROFESSOR PHILLIPS, F.R.S.
COMPARATIVE ANATOMY . . .	THOMAS ALLIS.
FOREIGN ORNITHOLOGY . . .	THOMAS MEYNELL, F.L.S.
BRITISH ORNITHOLOGY . . .	W. RUDSTON READ, F.L.S.
INSECTA AND CRUSTACEA . .	REV. WM. HEY.
ANTIQUARIAN DEPARTMENT .	REV. CHARLES WELLBELOVED.
LIBRARY AND MANUSCRIPTS .	REV. J. KENRICK.

OBSERVATORY & METEOROLOGY <i>under the care of a Committee consisting of</i>	THE REV. W. V. HARCOURT, F.R.S.
	PROFESSOR PHILLIPS, F.R.S.
	WM. GRAY, F.G.S.
	WM. L. NEWMAN, F.R.Ast.S.
	JOHN FORD.

REV. WM. HEY.

KEEPER OF THE MUSEUM :

EDWARD CHARLESWORTH, F. G. S.

SUBCURATOR OF THE MUSEUM & GARDENS :

HENRY BAINES.

REPORT OF THE COUNCIL
OF THE
YORKSHIRE PHILOSOPHICAL SOCIETY,
FEB. 1852.

IN presenting a report of the proceedings of the Yorkshire Philosophical Society for the year 1851, the Council are happy to assure the Annual Meeting of a continuance of that prosperity which has been the subject of congratulation in former years, and which is the result of a steady pursuit of the special objects of science and utility to which this Institution is devoted. At the close of 1850 numerous improvements in the Gardens, that for many years had occupied the attention of the Council, and had occasioned a great annual demand upon the resources of the Society, were completed, with the exception of the laying out in a suitable manner the space between St. Leonard's Hospital and the Multangular Tower.

This has been effected during the past year at a trifling expense, and in a manner likely to make that part of the Society's Grounds of equal interest with the others. The Council have thus had the opportunity, which they have not neglected, of directing more than usual attention to the state of the Collections already made and still increasing in every department of the Museum, in order that by the most careful and (where practicable) improved arrangement, appropriate exhibition, and accurate labelling of the specimens already accumulated, increased facilities may be afforded of instruction to the Student and Scientific Observer.

By thus employing to the greatest advantage the Collections already made, the Council conceive that the Society is strengthening its claim on the Members and the Public for increased assistance and co-operation.

In the Geological department there have been no donations calling for particular notice, but the Council have the pleasure of reporting a general augmentation of the Collection, especially in the Fossils of the Carboniferous Limestone and in the Tertiary group.

Valuable additions have been made to the Eocene Hampshire Fossils, and the Keeper of the Museum, during his visit to Suffolk in July last, obtained a very large Collection of the Fossils of the Crag, especially from the older or Coralline beds.

The Council have been glad to accede to an application from Mr. Edwards, on behalf of the Palæontographical Society, for permission to borrow some of the new species in the Hampshire Collection, in order to figure them in the Monograph of British Eocene Mollusca, upon which that gentleman is now at work. Several of the Oolitic Echinodermata have also been entrusted to Prof. E. Forbes to assist him in the investigation of the species of this class, which he has undertaken as Palæontologist to the Geological Survey of the United Kingdom.

Considerable progress has been made in the extension of the Collection of British Marine Recent Shells. The written labels have been replaced with neatly printed ones, and above 100 species, of which previously the Society possessed no examples, have been added to our series by the British Natural History Society. These include some of the rarest known British Shells—among them are *Fusus Norvegicus*, in fine condition, obtained by Mr. D. Ferguson, from the Yorkshire Coast; *Fusus Turtoni*, dredged off the Northumbrian Coast by Mr. Howes, of Newcastle; a living specimen of *Tellina balaustrina*, dredged alive by Professor Melville, in Galway Bay: *Aclis supranitida*, from Southport; and a considerable number of the rarer forms among the Genera *Rissoa*, *Odostomia*, *Mangelia*, &c. Great pains have been taken by the Keeper of the Museum to insure accuracy in the determination of the species by personal or written communication in doubtful

cases with Mr. Bean, Mr. Alder, Mr. Hanley, and other well known authorities in this branch of Natural History, and the Council trust that the correctness of identification may be relied upon throughout. The Council invite attention to an ingenious method (invented by the Keeper of the Museum) for the purpose of insuring the security of the smaller and more delicate species, which in the course of time suffer by exposure when mounted in the ordinary way.

The completion (so far at least as the *Marine* species are concerned) of the History of British Mollusca by Professor E. Forbes, and Mr. Hanley, has enabled the Keeper of the Museum to draw up and print a list of all the species recognized as such by the authors of this work. The circulation of copies of this list, with our desiderata marked, will, it is hoped, greatly facilitate our obtaining the species yet wanted to complete the British Collection.

In the class Radiata, there have been added in the British series some choice specimens of *Goniaster equestris*, from Lamlash Bay, Arran, and a carefully prepared specimen of *Comatula*, from the same locality ; a valuable acquisition, as connecting the Starfishes with the family of Crinoidea.

Another series of Uniones and Helices has been forwarded by our indefatigable correspondent, Mr. Joseph Clarke, of Cincinnati.

To Mr. O. A. Moore, the Society is indebted for a very interesting series of Land Shells, from Chili, principally of the genus *Bulimus*, and containing several forms new to the Collection.

The additions to the Foreign Collection have not been numerous, but are valuable. A skin of the Sable Antelope (*Aigoceros niger*), one of the rarest known species of African Ruminants, has been presented to the Society by Mr. Armitage, of Harrogate.

The Mineralogical cabinet has received, during the year, some fine specimens of Rutile, the gift of J. B. Lawes, Esq. The Minerals have been revised and the arrangement of them, in some respects, improved ; and the Council hope by an enlarged method of labelling, for which the cases now afford

space, to render the Collection more attractive to the Visitors and more useful to the Student.

The Council notice with pleasure the great progress that has been made in the arrangement of the general Collection of Foreign Birds. About 1100 species, including the British Collection, are now named, and although great difficulty may perhaps present itself in naming the remaining species, about 120 in number, owing to the want of works of reference in the Society's Library, yet the Curator of Foreign Ornithology, using the means within his power, and aided by the assistance of scientific friends, is not without hope of accomplishing this object.

To the Collection of British Birds there have been no additions that require particular notice. In the room dedicated to the Rudstone Collection the Council have directed a tablet to be erected in honor of the generous donor. The Council are also desirous of taking an early opportunity of adding to the pleasing effect of that Collection by making the glazing of the cases uniform.

Since the last report the valuable series of British Insects, presented by the executors of the late Rev. G. P. Rudd, has been incorporated with the Society's Collection by Mr. Meynell. A large number of species has been named by him, and a marked Catalogue of the British Coleoptera has been provided by the Rev. W. Hey, the Curator of that department.

The Collection of Insects, however, is still very deficient in Lepidoptera; none of which were among the specimens received by the Society from Mr. Rudd's executors.

The cabinet of Foreign Entomology has been carefully examined and put into good condition.

In the Antiquarian department the donations have not been numerous. A few Coins have been added to the cabinet, none of which require any particular notice. The Society is indebted to the Yorkshire Antiquarian Club for some further additions to the British and Saxon remains in the Museum, the result of excavations at Acklam and other localities in Yorkshire. A very interesting addition to the Roman Antiquities was made in the early part of the year, by the purchase of a large stone

coffin, containing the remains of a female and child covered with lime, found at Clementhorpe, in the excavations for a new house near the end of Nunnery-lane. In the course of the summer, near the same place, a portion of tessellated pavement having been unexpectedly brought to light, steps were immediately taken to obtain it for the Museum; and the Council having made application to the owner of the ground, are happy to state that there is reason to hope that, if it escape destruction, it will eventually be placed among the Collections of the Yorkshire Philosophical Society.

The Descriptive Catalogue, which the Curator of Antiquities began some time ago, is not yet finished. The council regret that, in consequence of the state of his health, Mr. Wellbeloved has been precluded from visiting the Museum so frequently as he wished. He has, however, received much valuable assistance, especially from Mr. Kenrick; and the Council are glad to learn that his work is so far advanced that he confidently hopes it may be ready for publication in the course of a few weeks.

The Council notice with pleasure a valuable donation from W. Rudston Read, Esq. to the Library, which has also received useful donations from various learned Societies during the past year; and such additional accommodation in bookcases has been provided, that not only all the volumes at present constituting the Library have been placed upon the shelves, but space is left for its future increase. Many new books have been entered in the classed and alphabetical Catalogues, and the numbering has been completed where it was imperfect; so that it is hoped the Members of the Society will find no difficulty in availing themselves of the many valuable scientific and antiquarian works which their Library contains.

The Council announce, with much satisfaction, that since their last report the Observatory has been put into substantial repair, both as to the walls, which had been loosened, and the roof, which admitted water. The Transit Instruments and Clocks, thus secured from harm, have been carefully re-adjusted and kept for six months in regular work. Two cases have been fixed on the north side of the building for the purpose of containing a pair of day and night thermometers (screened

from radiation), and a couple of wet and dry bulb thermometers graduated to fifths of degrees. Preparation is made for mounting a self-registering anemometer and rain guage in a separate building, with clock movement; and it is intended to place in a conspicuous situation, open to all Members and visitors, a Chart of the recorded observations of all the meteorological instruments.

The following Meteorological Register for 1851, York, has been received from Mr. Ford, who has for ten years obliged the Society by preparing similar annual documents, and who will continue his superintendence, in conjunction with other members, of the new instruments at the Observatory.

METEOROLOGICAL REGISTER, YORK, 1851.

Months.	Highest.	Lowest.	Mean.	Inches Rain.	Days of Rain.	Average Max.	Average Min.	Mean Temp.	Highest Temp.	Lowest Temp.	Nights at 32°	Prevailing Winds.
I	30.33	29.16	29.666	2.05	18	44.3	35.0	39.6	55	24	8	S. West.
II	30.47	29.43	29.966	0.79	8	44.6	32.1	38.3	54	27	19	West.
III	30.46	28.94	29.663	2.30	12	46.5	34.4	40.5	51	28	13	Southerly.
IV	30.23	29.41	29.825	1.47	11	51.0	37.2	44.1	63	30	3	N. East.
V	30.60	29.71	29.979	1.16	9	57.6	41.6	54.6	72	31	2	N. East.
VI	30.40	29.58	29.913	3.36	14	66.5	47.9	56.1	80	39	0	S. West.
VII	30.26	29.35	29.814	2.53	14	65.0	49.9	57.4	80	40	0	West.
VIII	30.41	29.56	29.962	2.21	13	67.9	51.0	59.4	76	37	0	N. East.
IX	30.72	29.33	30.166	1.77	5	62.0	44.6	53.4	74	37	0	N. East.
X	30.52	29.09	29.766	1.11	14	55.7	42.6	49.1	65	29	3	S. West.
XI	30.44	29.31	29.862	.62	9	42.0	30.6	36.3	49	23	19	N. West.
XII	30.60	29.44	30.168	1.09	9	44.0	33.3	38.7	57	23	16	Southerly.
			29.895	20.46	136	53.9	40.0	47.3			83	

DIRECTION OF THE WIND.

N.	S.	E.	W.	N.E.	N.W.	S.E.	S.W.
27	45	5	49	64	38	55	82

The temperature of the year 1851 was again nearly an exact mean 47·3. The mean for the last twenty years was 47·5. Since the year 1846, the mean annual temperature of York has exhibited a remarkable uniformity.

Temperature of 1846	50·00
1847	47·80
1848	47·50
1849	47·05
1850	47·00
1851	47·30

The month of January was 4° above a mean, and the month of November 5° below. The year like its predecessor was distinguished by an amount of rain considerably below a mean. In 1850, the total was 17·89 inches ; in 1851, 20·46 ; the mean for 20 years being 24·27 inches. The month of November seems to be losing its pluviose character. In 1844 on an average of 13 years November was second in amount of rain, July being first. The diminished quantities of the last few years have placed it fifth in amount of rain fallen, July still retaining the first place. November, 1851, appears to have been the coldest and the dryest November of the last 20 years.

The pressure of the mercurial column is again about a mean, being 29·89 5 inches, reduced for capillarity and temperature. The range between the two extremes of the year was 1·786 inches. Thunder and lightning were of rare occurrence during the year. A heavy storm burst over the city on the 21st June, accompanied with ·77 inch of rain, and another about the usual time in the first half of the month of August. The term, *usual time*, will be justified by the following statement of thunder storms at York in that month.

1851, .. August 13,	Wind S.	Rain	.03
1850, .. , 8 & 9	„ S.W. „	„	1·08
1849, .. , 8 & 9	„ S.E. „	„	1·06
1848, .. , 9 & 10	„ W. „	„	.07
1847, not observed, probably nocte?			
1846, .. August 1, 2, 7, & 13	Wind S.	Rain	.63
1845, .. , 9	„ E. „	„	.95
1844, .. , 13	„ S.W. „	„	.11
1843, .. , 15 & 16	„ W. „	„	1·96
1842, .. , 10	„ S. „	„	1·44

This almost invariable recurrence of storms, with only one exception in the course of ten years, all occurring within a limit of 8 days, is a fact of some interest. "Thunder, lightning, and rain more or less, the day before or the day after."*

The statements of Accounts which follow will fully explain the condition of the Society's financial arrangements, and will, the Council trust, prove satisfactory.

The total annual expenditure has been kept within the income by above £62., notwithstanding the extraordinary expenses attending the addition of new bookcases to the Library, and the completion of the communications between the baths, fountains, and hothouses, and the mains of the new waterworks, and although the general account has been necessarily charged this year with much larger sums than usual for painting and general repairs, and a large but long called for expenditure on the Observatory has been incurred.

On this occasion the Council announce, with regret, the resignation of Thomas Meynell, Esq., the Treasurer, and one of the present Secretaries of the Society, a gentleman from whom, for many years past, the Society has received the most valuable and efficient assistance in carrying out the various objects that from time to time have occupied attention. The Council, however, are glad to find that the Society may still hope to enjoy the benefit of Mr. Meynell's knowledge and experience,

* Reports on the amount of rain fallen in the past year have been received as follows:

1851.	Mean of years.		
Settle	36·28	42·7	10
Huggate	28·75	28·37	7
Middleton, near Beverley	23·64	21·77	4
Bransby	24·91
Ackworth	20·13	25·2	10
Doncaster	17·83	24·6	9

Mr. Marshall of Kendal, who has registered the rain of that district for 30 years, states that the amount has diminished considerably; that in the first 15 years of that period the annual fall was 57.34; and in the last 15, 50.73.

The mean rain fallen at York in the 10 years ending Dec. 31st, 1841, was 21.145; and in the last 10, ending Dec. 31st, 1851, 24.244, indicating no tendency towards a diminished annual amount.

and the Meeting will no doubt gladly accept the proposal of the Council to elect him a Vice-President of the Society for the ensuing year. The Council are glad to announce as a successor to Mr. Meynell in the office of Treasurer, Wm. Gray, Esq., a gentleman whose former labours in behalf of the Society as Secretary, will still be in the recollection of the Meeting.

In looking round for a successor to Mr. Meynell as one of the Secretaries, the Council congratulate the Meeting in being able to name Professor Phillips, a gentleman distinguished no less for his scientific attainments, than for his constant co-operation and warm interest in the welfare of the Society on all occasions from its earliest days, who has kindly consented to return to an office, which he formerly filled, and to act as joint Secretary with Mr. Travis.

Such is a brief review of the proceedings of the Society during the year that is past, and the Council trust that the hopes and promises of former years have been in a considerable degree realized. The arrangements in every department of the Museum have undergone the most careful scrutiny and examination, and wherever an improvement has been practicable steps have been taken for carrying it out. The collections in the Museum have been enlarged and enriched, the sources of attraction to strangers, and of enjoyment to the Members and their families which the Gardens offered, have been increased, and the Society may be regarded as having advanced to a point from which its friends may look back with satisfaction on the progress it has made, and forward with confidence, to a career of increased and increasing usefulness.

THE

TREASURER OF THE YORKSHIRE PHILOSOPHICAL SOCIETY
IN ACCOUNT FOR THE YEAR 1851.

Cr.	INCOME.	£.	s.	d.	EXPENDITURE.	Dr.	£.	s.	d.
1851.					1851.				
Annual Subscriptions and Arrears	551 1 0				Rent to the Crown	1 0 1			
Admission of 19 New Members	95 0 0				Rent to the Corporation	53 8 0			
Associates	9 0 0				Rates and Taxes	6 14 4			
Ladies' Subscriptions.....	49 1 0				Insurance & Water Rent	12 15 0			
Rents	116 14 3						73 17 5		
Keys of the Gates.....	31 10 0				Salaries and Wages:				
Money received at the Gate	170 15 11				Keeper of the Museum	150 0 0			
Swimming Bath (deducting expen-					Sub-Curator	100 0 0			
ses)	44 14 10				Servants	20 0 0			
Use of Tent.....	7 0 0				Lodgekeeper	20 0 0			
					Labourers	152 3 0			
					Clerk and Collector....	25 0 0			
					Attendant in Hospitium	6 0 0			
							473 3 0		
					Interest on Debt:				
					Yorkshire Insurance				
					Company	48 10 10			
					To Bankers.....	49 9 0			
							97 19 10		
					Museum, Gardens, &c.:				
					Painting and General				
					Repairs	91 8 9			
					Purchase and prepara-				
					tion of Specimens ..	33 18 6			
					Observatory	42 17 1			
							168 4 4		
					Library, Books and Binding.....	24 15 6			
					Incidental Expenses:				
					Printing, Advertising,				
					and Stationery	21 19 0			
					Coals and Gas	48 5 10			
					Postages, Carriage, and				
					Sundries	45 0 3			
							115 5 1		
					Total Ordinary Expenses	953 4 8		
					Extraordinary Expenses:				
					New Book Cases in				
					Library	21 0 0			
					Connecting the Bath,				
					Fountains, Hothouses				
					&c., with the New				
					Waterworks	37 7 0			
							58 7 0		
					Total Expenditure	1011 11 8		
					Permanent Debt, viz.:				
					Yorkshire Insurance				
					Company	1000 0 0			
					Six Members at £50				
					each	300 0 0			
							1300 0 0		
					Balance overdrawn Messrs.				
					Swann, Clough, & Co.,				
					Dec. 31st, 1850	1206 12 0			
					Total Debt of the Society				
					Dec. 31st, 1850	2506 12 0	2506 12 0		
								£3518 3 8	

Audited, Jan. 20th, 1852.

THOMAS MEYNELL, Jun., Treasurer.

JOHN CLUDERAY,
HENRY ROBINSON.

MEMBERS

ELECTED SINCE FEB., 1851.

1851.

Thomas Shipton, *York*.
Robert William Anderson, *York*.
George Acton, *York*.
Col. Michael Childers, *York*.
Francis Moore, *York*.
Thomas Smith, *York*.
Thomas Taylor, *York*.
Thomas Cooke, *York*.

1852.

Thomas H. Morris, *York*.
Samuel William North, *York*.
Lord Londesborough, *Grimstone Park*.
John G. Lees, *York*.

RESOLUTIONS

PASSED AT THE ANNUAL MEETING, FEB. 10TH, 1852.

1. That the Report of the Council be adopted and printed for the use of the Members.
2. That the thanks of the Society be given to the Vice-Presidents and Members of the Council retiring from office, and to the Secretaries and Curators for their valuable services.
3. That the special thanks of the Society be given to Thomas Meynell, Jun., Esq., the Treasurer, and joint Secretary of the Society, retiring from office.
4. That the Council be empowered to authorize the holding of one or more Horticultural Meetings in the Society's Grounds during the present year.
5. That the Council be empowered on certain days to be selected by them during the present year, to permit free admission to all persons to the Museum and Gardens, the mode of admission to be regulated by the Council.
6. That the Council be empowered to admit Strangers during the present year, at the usual rates of payment.
7. That the Council be authorized to admit to the Museum and Gardens, as temporary subscribers, any occasional Visitors to York, not residing in the County, at the rate of one pound for four months for themselves and families, but in no case shall such privilege be granted for a longer period than twelve months.
8. That it is desirable to raise a further sum not exceeding £1000 on Mortgage of the property of the Society, and that the Trustees be authorized and requested to execute such security as shall be approved by the Council.

COMMUNICATIONS

TO THE

MONTHLY MEETINGS,

1851.

JANUARY.—JOHN PHILLIPS, Esq.—On Magnetism in Yorkshire.

JUNE.—J. HALL, Esq.—On the Walls of Roman York.

NOVEMBER.—W. GRAY, Esq.—On the total Eclipse of the Sun, of
the 28th July last, as observed by him in Norway.

DONATIONS TO THE MUSEUM.

GEOLOGY.

Club, Yorkshire Naturalists'. Various species of Trilobites and Pentremites, with other rare Fossils from the Mountain Limestone of Yorkshire.

Society, British Natural-History } A large series of specimens from the Coralline Crag, consisting of Shells and Corals; also numerous Sharks' Teeth, Cetacean bones, &c. from the Red Crag of Suffolk.
Additional Fossils from the Eocene Hampshire Strata.

Clarke, Joseph, Esq., (*Cincinnati*) } Silurian Fossils from North America.

Lyell, Sir Chas. A rare Natica, from the Eocene Strata of Barton Cliff, Hants.

MINERALOGY.

Backhouse, Miss Sarah ... Bekite from Torquay.

Boucher, Mr. A rare variety of Felspar.

Lawes, J. B. Esq., (*St. Albans*) } Very fine specimens of Oxyde of Titanium with Sulphate of Molybdene and Chromate of Iron from Loch Tay.

Walker, Miss, (*Sand Hutton*) } Interesting varieties of Agate (in exchange.)

ZOOLOGY.

Club, Yorkshire Naturalists'. Remarkable Lizard from Mexico.

Society, British Natural-History } About 100 species of the rarer British Marine Shells, including Fusus Norvegicus, Fusus Turtoni, Tellina Balauistica, Arca rardentata, &c. &c.

Society, British Natural-History	Asteriadæ from Lamlash, Arran, including a specimen in fine preservation of <i>Comatula rosacea</i> .
Armitage, S., Esq., (<i>Harrogate</i>)	Skin of the Sable Antelope, <i>Aigoceros niger</i> , from South Africa.
Clarke, Joseph, Esq., (<i>Cincinnati</i>)	Fine series of American Land and Freshwater Shells.
Dawnay, Hon. Payan	Pure white variety of the Blackbird, shot at Beningbrough Hall.
Healey, Major	Three British Ducks.
Lee, Mr. H., (<i>Stillington</i>)	Two specimens of the white variety of the Common Mole.
Moore, O. A., Esq.	A valuable series of Bulimi and Patellæ from Chili.
Read, Wm. Rudstone, Esq.	A species of the genus Tetradon, in very fine preservation.
Wood, Edw., Esq., (<i>Richmond</i>)	Mounted specimen of Ray's Bream (in exchange.)

ANTIQUITIES.

Club, Yorkshire Antiquarian.	Large Urn, two Vases of British Pottery, two Bone Pins, and Skull from Tumuli, at Acklam.
	Two skulls from Tumuli, at Dane's-dale; portion of Mortarium and two Coins of Vespasian and Trajan, from Malton.
Annakin, Mr. C.	Fragments of Pottery found in Blake Street.
Brown, Mr. Robt.	Two curious antique Keys.
Bell, Mr. Wm.	Groat of David. II. of Scotland.
Champion, Mrs., (<i>Redland, Bristol</i>)	Seventy-six Coins and Tokens.
Clarke, Joseph, Esq., (<i>Cincinnati</i>)	Some Flint Arrow Heads.
Day, Edw., Esq.	Roman Sword found at the Mount.
Davies, Robt., Esq.	Fragments of Earthenware, found near two Roman Coffins, in a Field South

of Severus' Place ; a small portion of one of the Coffins, and portions of its contents.

A Cinerary Urn found in digging for the foundation of his house, without Micklegate Bar.

Hobson, R., Esq.	Twenty Coins in Brass, (1 Grecian, 12 Roman, 7 Autonomons.)
King, John, Esq.	Half-sovereign of Queen Elizabeth.
Prest, John, Esq.	Coin of Faustina (large brass.)
Pulleyn, Mr. J.	Two Horse Shoes found in Petergate.
Seymour, John, Esq.	Seal of Queen Elizabeth.
Thomas, Mr.	Two Urns, a Patera, &c. found in the brickfield, near Layerthorpe Bridge.
Welbeloved, Rev. C.....	Roman Key found in digging a drain in Davygate.

GARDEN.

Devonshire, his Grace the } Duke of	Victoria regia, from the Conservatory at Chatsworth.
Fulton, Miss, (<i>Blackheath</i>)	10 Papers of Seeds, from India.
Lindley, Dr.	A collection of Seeds and Plants, from the Chiswick Gardens.
Oldfield, Joshua, Esq.	Two Loads of Manure.
Wood, John, Esq.	Various Seeds.

MISCELLANEOUS.

Brown, Mr. John	Burnt Wheat found in Peterlane.
Meynell, Thos. Jun., Esq....	A Mason's Hygrometer.
Newman, W. L., Esq.	The original Equatorial of Abm. Sharpe. A Standard Barometer.
Taylor, Rev. Wm.....	Piece of the protected Telegraphic wire used for Submarine purposes.
Turner, John, Esq.	The Boomerang of the Aboriginal tribes of Australia Felix. The Lee-an-gle of the Aboriginal tribes of Australia Felix, (made from the Oak of the Colonists.)

LIBRARY.

Association, British, for the } Report for 1850.
 Advancement of Science }

Company, East India, Hon- } Catalogue of the Mammalia in the Mu-
 ourable Court of Direc- } suem of the East India Company.
 tors of

Institute, Archæological ... On the Roman Roads, Camps, and other
 Earth-works, between the Tees and
 the Swale, in the North Riding of the
 County of York, by Henry Mac-
 lauchlan. (From No. 23, of the
 Archæological Journal.)

Society, Royal Astronomi- } Greenwich Observations, for 1849.
 cal, of London } Greenwich Magnetical and Meteorolo-
 gical Observations, 1850.

Society, Chemical, of London Journal for 1851.

Society, Geological, of London Quarterly Journal for 1851.

Society, Zoological, of London Proceedings 1849.

Society, the Numismatic Proceedings for Session 1849—50.

Société d'emulation D'Ab- } Memoirs for 1844, 5, 6, 7, and 8.
 beville

Society, Royal, of Edinburgh Transactions of the Society, part 2,
 vol. 20, for Session 1850 and 1851.
 Proceedings of the Society from Dec.
 1844, to April 1850, (index of.)
 Proceedings of the Society, vol. 3, parts
 40 and 41, for 1850 and 1851.

Society, Royal Cornwall } Report for 1850.
 Polytechnic

Society, Historic of Lan- } Proceedings and Papers for 1850—51.
 cashire and Cheshire

Society, Liverpool Literary } Proceedings for Sessions 1849 to 51.
 and Philosophical

Society, Literary and Philo- } Memoirs of, vol. 9.
 sophical, of Manchester.

Society, Geological and Poly- } Report of the Proceedings for 1850.
 technic, of the West Riding.

Government, British, by di- } Observations on days of unusual Mag-
 rection of } netic disturbance made at the British

Colonial Magnetic Observatories, under the departments of the Ordnance and Admiralty : printed by the British Government under the superintendence of Lieut. Col. Edwd. Sabine, vol. 1, part 1—1840, 1841 ; part 2—1842, 1843, 1844.

Observations made at the Magnetical and Meteorological Observatory at Hobarton, in Van Dieman's Island and by the Antarctic Naval Expedition, vol. 1. commencing with 1841, with Abstracts of the Observations from 1841 to 1848.

Magnetic and Meteorological Observations made at the Cape of Good Hope, 1841 to 1846, with Abstracts of the Observations from 1841 to 1850, inclusive.

Fenwick, John, Esq.,
(The Author.) } Treasure-Trove in Northumberland.

Londesborough, Lord The Yorkshire Anthology, by J. O. Halliwell, Esq.

Mantell, G. A., Esq., L.L.D. } Supplementary Observations on the
(The Author.) } structure of the Belemnite, and
 Belemnoteuthis.

Maxey, Rev. Jonathan, D.D. } Collegiate addresses with a Biographical
(The Author.) } introduction by Romeo Elton, D. D.,
 F. R. P. S.

Merryweather, George, M.D. } An Essay explanatory of the 'Tempest
(The Author.) } Prognosticator.'

Read, Wm. Rudstone, Esq. Linnæan Transactions, vols. 1 to 11,
 vols. 17, 18, and parts 1, 2, of vol. 20.
 Zoological Transactions, vol. 1, and
 part 1 of vol. 2.

Smith, C. R., Esq., F. S. A. } Notes on the Antiquities of Treves,
(The Author.) } Mayence, Wiesbaden, Niederbeber,
 Bonn, and Cologne.

Etchings of Anglo-Saxon Antiquities
 extracted from 'Collectanea Antiqua,'
 vol. 11, part 6.

Proceedings of the Society of Antiquaries of London, (Nos. 18, 20, 21, 22, 24, 25, 26, and 27.)

Thurnam, John, Esq., M.D. Die Universitats Sternwarte in Christiania herausgegeben, von Christopher Hansteen, Director der Sternwarte.

Wood, John, Esq. Journal of the Horticultural Society of London for 1851.

SERIAL WORKS SUBSCRIBED FOR.

Churton's Monastic Ruins of Yorkshire, fol., (6 parts published).

Doubleday and Hewitson's Genera of Diurnal Lepidoptera, fol., col. plates, (50 parts published).

Fauna Antiqua Sivalensis, or Geology of the Sewalik Hills in the North of India, by Dr. Falconer and Major Cautley. (Part 1 to 9 of Illustrations, large folio, and part 1 of Letterpress, 8vo.)

Forbes and Hanley's British Mollusca, 8vo. col. plates, (42 parts published).

Publications of the Ray Society, (1851): The British Species of Angiocarpous Lichens elucidated by their sporidia, by the Rev. W. A. Leighton; part 5 of The British Nudibranchiate Mollusca, by Messrs. Alder and Hancock.

Publications of the Palaeontographical Society, viz.:—Crag Mollusca, part 1, Univalves; part 2, Bivalves, by S. V. Wood, F. G. S. Fossil Reptilia of the London Clay, part 1, Chelonia, by Prof. Owen and Bell; part 2, Crocodilia and Ophidia, by Prof. Owen; part 3, Reptilia of the Cretaceous Formations, by Prof. Owen. Mollusca, from the Eocene Formations of England; part 1, Cephalopoda, by Fred. E. Edwards. Mollusca of the Great Oolite, part 1, Univalves, by J. Morris, F. G. S., and John Lycett. British Oolitic and Liassic Brachiopoda, by Thos. Davidson. British Fossil Corals; part 1, Corals from the Tertiary and Cretaceous Formations; part 2, Corals from the Oolitic Formations, by Prof. H. Milne Edwards and Jules Haime. The Entomostraca of the Cretaceous Formation of England, by T. Rupert Jones. Permian Fossils of England, by Prof. Wm. King. On the Fossil Lepadidae, or pedunculated Cirripedes of Great Britain, by Charles Darwin, F. R. S., &c.

Scientific Memoirs, edited by Richard Taylor, F. S. A., (20 parts published).

Sowerby's Thesaurus Conchyliorum, 8vo. col. plates, (12 parts published).

Waterhouse's Natural History of Mammalia, 8vo., col. plates, (2 vols. published.)

PERIODICALS.

London and Edinburgh Philosophical Magazine, monthly.

Annals and Magazine of Natural History, monthly.

The Phytologist, monthly.

London Geological Journal, (3 parts published).

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13 MAR 1886



